

10/539242

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of)

MIHAN et al.)

PCT/EP 03/13748)

Intl. Filing Date: December 05, 2003)

US Serial No.: unassigned)

For: MONOCYCLOPENTADIENYL COMPLEXES)

BOX IDS

Honorable Comm'r. of Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This subject Information Disclosure Statement is submitted in connection with applicants' continuing duty of disclosure under 37 C.F.R. §1.56.

LISTING OF RELEVANT DOCUMENTS:

The relevant documents are listed in the attached Form PTO-1449.

REMARKS:

The document (BF) is listed on page 1, lines 14-15 and (D) is found in the specification on page 1, lines 17-20. Documents (AI) are found in line 27-30, and (BG) in line 32-34, on the first page in the specification.

Documents (A), (E), (BA), (BD), (BK) and (BL) are believed to be relevant to the claimed invention. Document (AJ) is found in line 1-2, document (AK) in line 4-5, documents (BH), (BI) and (BJ) in lines 10-19, on page 2 in the specification.

Document (AN) is found on page 6, lines 1-5, and (BM) in lines 27-31 on page 7 in the specification. Citations (BI) and (BH) are also found on page 9, lines 17-19, and page 40, lines 18-21; and document (BN) on page 13, lines 8-10. (BO) has been found on page 16, lines 8-10 and (AL) page 21, lines 19-21, on page 2, lines 10-19, and is also listed in the International Search Report in category "X".

The documents (AM), (AO) and (AP) have been found on page 22, lines 33-38, and on page 46, lines 26-28 in the specification; (AA) however, is cited on page 23, lines 18-20, page 27, lines 15-16 and page 29, line 16 in the specification. Documents (AB) is found in the specification on page 26, lines 37-39.

Documents (AC) is listed on page 29 in lines 4-5, (AD) in lines 23-24 and (AE) in lines 36-38: (AE) however is also found on page 40, lines 36-39 in the specification. (BB) is cited on page 38, lines 10-14; (AF) on page 41, lines 1-4; (BC) and (AG) on page 43, lines 38-40 in the specification.

Arndt et al. (BE) is listed in the International Search Report in category "P" and "A"; documents (B) and (C) are found on page 48, lines 30-31; and (AH) is found on page 49, lines 1-5 in the specification.

A copy of the International Search Report is attached.
Entry is respectfully solicited.

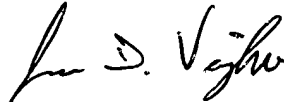
FEE UNDER 37 C.F.R. §1.17(P):

Since this Information Disclosure Statement is submitted along with a new application examination, a fee under 37 C.F.R. §1.17(p) is not required (37 C.F.R. §1.97(b)).

Please charge any shortage in fees due in connection with the filing of this paper, including Extension of Time fees, to Deposit Account No. 14.1437. Please credit any excess fees to such deposit account.

Respectfully submitted,

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| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(use several sheets if necessary)</i> | | | | DOCKET NUMBER: 8019.102 | | APPLICATION NUMBER: 10/539242 unassigned | | |
|---|-----------------|-----------------|----------|--------------------------------------|--------------|---|-------------|----|
| | | | | APPLICANT: MIHAN et al. | | CONFIRMATION NUMBER: unassigned | | |
| | | | | FILING DATE: June 16, 2005 | | GROUP ART UNIT: unassigned | | |
| U.S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLAS S | FILING DATE IF APPROPRIATE | | |
| | A | 6,417,302 B1 | 07/09/02 | BOHNEN et al. | | | | |
| | B | 3,242,150 | 03/22/66 | SCOGGIN et al. | | | | |
| | C | 3,248,179 | 04/26/66 | NORWOOD et al. | | | | |
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| | G | | | | | | | |
| | H | | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | NAME | CLASS | SUBCLAS S | TRANSLATION | |
| | | | | | | | YES | NO |
| | AA | WO 00/31090 | 06/02/00 | PCT | | | | |
| | AB | WO 00/24787 | 05/04/00 | PCT | | | | |
| | AC | WO 97/36937 | 10/09/97 | PCT | | | | |
| | AD | WO 99/06414 | 02/11/99 | PCT | | | | |
| | AE | WO 01/41920 A1 | 06/14/01 | PCT | | | | |
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| | AG | WO 98/27124 | 06/25/98 | PCT | | | | |
| | AH | WO 97/04015 | 02/06/97 | PCT | | | | |
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| | AQ | | | | | | | |
| | AR | | | | | | | |
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OTHER DOCUMENTS

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| EXAMINER INITIAL | | AUTHOR | DOCUMENT |
|--|----|--------------------|--|
| | BA | Lettau | "Aromatische Heterocyclen", Chemie der Heterocyclen, page 1432-1481; 1 st edition, VEB, Weinheim 1979, |
| | BB | Wiesenfeldt et al. | "ansa-Metallocene derivatives, XVII*. Recemic and meso diastereomers of group IV metallocene derivatives with symmetrically substituted, dimethylsilanediyl-bridged ligand frameworks. Crystal structure of R, S-Me ₂ Si(3-t-Bu-5-MeC ₃ H ₂) ₂ ZrCl ₂ ; page 359-370; Journal of Organometallic Chemistry (1989) |
| | BC | Small et al. | "Highly Active Iron and Cobalt Catalysts for the Polymerization of Ethylene", J. Am. Chem. Soc. 1998, 120, 4049- 4050 |
| | BD | Britovsek et al. | "Novel olefin polymerization catalysts based on iron and cobalt", page 849-850; Chem. Commun., 1998 |
| | BE | Arndt et al. | "Alkyl Complexes of Rare-Earth Metals That Contain a Furyl-Functionalized Cyclopentadienyl Ligand: Alkyl Cation Formation and Unexpected Ring-Opening Reaction of the Furyl Group", Organometallics 2003, 22, 775-781 |
| | BF | Kirk-Othmer et al. | "Olefin Polymers (High Pressure Polyethylene)", Encyclopedia of Chemical Technology", 1981, Vol. 16, p. 402 |
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| | BI | Enders et al. | "8-Quinolylcyclopentadienyl, a Ligand with a Tailored Fit for Chelate Complexes", Chem., Ber. 1996, 129, 459-463, VCH Verlagsgesellschaft mbH, D-69451 Weinheim (1996) |
| | BJ | Blais et al. | "Pendent Aminoalkyl-Substituted Monocyclopentadienyltitanium Compounds and Their Polymerization Behavior", Department of Chemistry, American Chemical Society (1998) |
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| | BL | Ewen et al. | "Expanding the Scope of Metallocene Catalysis: Beyond Indenyl and Fluorenyl Derivatives"; page 150-169 |
| | BM | Haltermann et al. | "Synthesis and Applications of Chiral Cyclopentadienylmetal Complexes", Chemical Reviews, 1992, Vol. 92, 965-994 |
| | BN | Strauss et al. | "The Search for Larger and More Weakly Coordinating Anions", Chem. Rev. 1993, 93, 927-942. |
| | BO | Furukawa et al. | "Preparation of Pyridyl Grignard Reagents and Cross Coupling Reactions with Sulfoxides Bearing Azaeterocycles, Tetrahedron Letters, Vol. 28, No. 47, pp. 5845-5848, 1987 |
| EXAMINER | | DATE CONSIDERED | |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | | | |